STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL 97-011

INSTRUCTIONS

1. The preparing activity must complete blocks 1,2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

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I RECOMMEND A CHANGE:	**1. DOCUMENT NUMBER** MIL-STD-2301	**2. DOCUMENT DATE** *(YYMMDD)* 930618

3. DOCUMENT TITLE

COMPUTER GRAPHICS METAFILE (CGM) IMPLEMENTATION STANDARD FOR THE NITFS

4. NATURE OF CHANGE ***(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)***

Page 90, paragraph 5.2.2.1.7 does not clearly address the specific procedure for handling a CGM file when start and stop vectors of an arc element fall on top of each other.

Refer to attached sheet for new paragraphs and figure.

5. REASON FOR RECOMMENDATION

To reduce ambiguity concerning how CGM implementation should handle a CGM file when start and stop vectors of an arc element fall on top of each other.

6. SUBMITTER

a. NAME *(Last, First, Middle Initial)*	b. ORGANIZATION	
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8. PREPARING ACTIVITY

a. NAME	b. TELEPHONE *(Include Area Code)* (1) Commercial (2) AUTOVON
c. ADDRESS *(Include Zip Code)*	**IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:** Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340

JITC/JTDB **14 NOVEMBER 1996**

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL
FOR MIL-STD-2301, CGM

RE: Proposed changes to MIL-STD-2301 address how CGM implementations should handle a CGM file when start and stop vectors of an arc element fall on top of each other.

Insert the following paragraphs and figure.

Paragraph 5.2.2.1.7.1, Vector Separation for input. When producing circular or elliptical arcs, the CGM implementation will not select the same or adjacent pixels at the point where the vectors cross the circumference of the arc at full resolution. The most extreme angle allowed is depicted in the figure below.

Paragraph 5.2.2.1.7.2, Vector Separation for output. When displaying CGM arc elements where the associated vectors have either the same pixel or are on adjacent pixels on the circumference of the arc, the CGM implementation will display as a single point. The calculation for this will be done at full resolution.